

WEST Search History

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DATE: Friday, November 26, 2004

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		<i>DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	\$lipid same (vinyl adj1 ether)	42

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Search Results - Record(s) 31 through 42 of 42 returned.

☐ 31. Document ID: US 4960814 A

Using default format because multiple data bases are involved.

L1: Entry 31 of 42

File: USPT

Oct 2, 1990

US-PAT-NO: 4960814

DOCUMENT-IDENTIFIER: US 4960814 A

TITLE: Water-dispersible polymeric compositions

DATE-ISSUED: October 2, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Stephen H. W.	Kingsport	TN		
Greene; Carol J.	Mt. Carmel	TN		
Sharma; Mahendra K.	Kingsport	TN		

US-CL-CURRENT: 524/312; 106/163.01, 106/168.01, 524/311

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 32. Document ID: US 4551446 A

L1: Entry 32 of 42

File: USPT

Nov 5, 1985

US-PAT-NO: 4551446

DOCUMENT-IDENTIFIER: US 4551446 A

TITLE: Use of synthetic phosphoglycerides possessing platelet activating properties as desensitizing agents

DATE-ISSUED: November 5, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanahan; Donald J.	San Antonio	TX		
Pinckard; R. Neal	San Antonio	TX		

US-CL-CURRENT: 514/77; 514/114, 554/80, 554/82, 558/169, 987/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 33. Document ID: US 4504474 A

L1: Entry 33 of 42

File: USPT

Mar 12, 1985

US-PAT-NO: 4504474

DOCUMENT-IDENTIFIER: US 4504474 A

TITLE: Synthetic phosphoglycerides possessing platelet activating properties

DATE-ISSUED: March 12, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanahan; Donald J.	San Antonio	TX		
Pinckard; R. Neal	San Antonio	TX		

US-CL-CURRENT: 514/78; 514/114, 554/80, 554/81, 987/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KOMC	Draw De
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☐ 34. Document ID: US 4329302 A

L1: Entry 34 of 42

File: USPT

May 11, 1982

US-PAT-NO: 4329302

DOCUMENT-IDENTIFIER: US 4329302 A

**** See image for Certificate of Correction ****

TITLE: Synthetic phosphoglycerides possessing platelet activating properties

DATE-ISSUED: May 11, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanahan; Donald J.	San Antonio	TX		
Pinckard; R. Neal	San Antonio	TX		

US-CL-CURRENT: 558/169; 987/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KOMC	Draw De
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☐ 35. Document ID: JP 03072554 A

L1: Entry 35 of 42

File: JPAB

Mar 27, 1991

PUB-NO: JP403072554A

DOCUMENT-IDENTIFIER: JP 03072554 A

TITLE: COMPLEX OF SURFACTANT WITH POLYMER

PUBN-DATE: March 27, 1991

INVENTOR-INFORMATION:

NAME	COUNTRY
TAGUCHI, KAZUHIRO	
MINOURA, NORIHIKO	
AIBA, SEIICHI	
FUJIWARA, YUKIHIKO	

INT-CL (IPC): C08L 35/00; C08K 5/00; C08L 29/10; C08L 35/08; C12N 5/06; C12M 3/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 36. Document ID: WO 3026712 A1

L1: Entry 36 of 42

File: EPAB

Apr 3, 2003

PUB-NO: WO003026712A1

DOCUMENT-IDENTIFIER: WO 3026712 A1

TITLE: METHOD OF PREPARING BASEMENT MEMBRANE, METHOD OF CONSTRUCTING BASEMENT MEMBRANE SPECIMEN, RECONSTITUTED ARTIFICIAL TISSUE USING THE BASEMENT MEMBRANE SPECIMEN AND PROCESS FOR PRODUCING THE SAME

PUBN-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
MOCHITATE, KATSUMI	JP

INT-CL (IPC): A61 L 27/20; A61 L 27/38; A61 L 27/24; A61 L 27/50

EUR-CL (EPC): A61L027/20; A61L027/24, A61L027/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 37. Document ID: US 20040043508 A1

L1: Entry 37 of 42

File: DWPI

Mar 4, 2004

DERWENT-ACC-NO: 2004-280748

DERWENT-WEEK: 200426

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TITLE: Substrate for supporting biological array, has reactive surface to which polymer coating is attached by covalent bonds, even coating of polymer reduces nonspecific binding of biomolecules to polymer-coated substrate surface

INVENTOR: BOOKBINDER, D C; FRUTOS, A G ; LAHIRI, J ; LESLIE, T M ; PENG, J ; XIE, X

PRIORITY-DATA: 2002US-0234412 (September 3, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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US 20040043508 A1

March 4, 2004

021

C12Q001/68

INT-CL (IPC): C12 M 1/34; C12 Q 1/68; G01 N 33/543

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 38. Document ID: WO 200105375 A1, EP 1202714 A1, AU 200061053 A

L1: Entry 38 of 42

File: DWPI

Jan 25, 2001

DERWENT-ACC-NO: 2001-138431

DERWENT-WEEK: 200238

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TITLE: New amphiphilic lipid with cleavable hydrophilic headgroups, useful for forming liposomes for the delivery of therapeutic or diagnostic agents

INVENTOR: BOOMER, J A; HAYNES, R ; THOMPSON, D H

PRIORITY-DATA: 1999US-146552P (July 30, 1999), 1999US-144301P (July 16, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200105375 A1	January 25, 2001	E	041	A61K009/127
EP 1202714 A1	May 8, 2002	E	000	A61K009/127
AU 200061053 A	February 5, 2001		000	A61K009/127

INT-CL (IPC): A61 K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 39. Document ID: WO 9731624 A1, AU 9723169 A

L1: Entry 39 of 42

File: DWPI

Sep 4, 1997

DERWENT-ACC-NO: 1997-470450

DERWENT-WEEK: 199743

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TITLE: Enhancing delivery of bio-active agents to cell cytoplasm - from liposomes containing (alkenyl, alkyl)- or (di:alkenyl)-glycerophosphate ester which is cleaved by lower cell pH to release the agent

INVENTOR: LOW, P S; RUI, Y ; THOMPSON, D H ; WANG, S

PRIORITY-DATA: 1996US-012353P (February 27, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9731624 A1	September 4, 1997	E	040	A61K009/127
AU 9723169 A	September 16, 1997		000	A61K009/127

INT-CL (IPC): A61 K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 40. Document ID: WO 9304673 A1, CA 2050971 C, CA 2050971 A, AU 9225902 A, US 5277913 A, JP 07502261 W

L1: Entry 40 of 42

File: DWPI

Mar 18, 1993

DERWENT-ACC-NO: 1993-100635

DERWENT-WEEK: 200249

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TITLE: Liposomal delivery systems with photoactivatable triggered release - consists of liposomal membranes comprising lipid(s) contg. vinyl ether functionality which when cleaned leaves a hole in the membrane

INVENTOR: ANDERSON, V C; THOMPSON, D H

PRIORITY-DATA: 1991US-0756504 (September 9, 1991), 1991CA-2050971 (September 9, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9304673 A1</u>	March 18, 1993	E	051	A61K009/127
<u>CA 2050971 C</u>	May 28, 2002	E	000	A61K047/24
<u>CA 2050971 A</u>	March 10, 1993		000	A61K009/127
<u>AU 9225902 A</u>	April 5, 1993		000	A61K009/127
<u>US 5277913 A</u>	January 11, 1994		023	A61K009/127
<u>JP 07502261 W</u>	March 9, 1995		000	A61K009/127

INT-CL (IPC): A61K 5/06; A61K 9/127; A61K 47/24; A61N 5/06; B01J 13/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw. De
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☐ 41. Document ID: WO 9116920 A, AU 9178724 A

L1: Entry 41 of 42

File: DWPI

Nov 14, 1991

DERWENT-ACC-NO: 1991-353526

DERWENT-WEEK: 199148

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Phospholipid prodrugs of aspirin, other salicylate(s) and NSAIDS - are less toxic than free salicylate(s) and NSAIDS and are useful for treating osteo-rheumatoid arthritis

INVENTOR: HOSTETLER, K Y; KUMAR, R

PRIORITY-DATA: 1990US-0519600 (May 7, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9116920 A</u>	November 14, 1991		000	

AU 9178724 A November 27, 1991 000

INT-CL (IPC) : A61K 37/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Draw. De
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□ 42. Document ID: BE 832366 A, AT 7506293 A, AT 7804553 A, AT 7804554 A, BR 7505186 A, CA 1053595 A, CH 624431 A, DE 2535951 A, DK 7503652 A, DK 7901230 A, FI 7502275 A, FI 7801273 A, FR 2288748 A, GB 1463513 A, HU 17195 T, IL 47893 A, JP 51051582 A, NL 7509667 A, SE 7509008 A, SE 8006247 A, SU 687080 A, SU 847926 A, US 4267273 A, ZA 7505140 A

L1: Entry 42 of 42

File: DWPI

Feb 12, 1976

DERWENT-ACC-NO: 1976-14942X

DERWENT-WEEK: 197609

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TITLE: Supported enzymes recoverable from aq. media - are bonded to support via non-polar gps. and transferring from aq. phase to water-immiscible liq.

PRIORITY-DATA: 1975GB-0017434 (April 26, 1975), 1974GB-0035556 (August 13, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>BE 832366 A</u>	February 12, 1976		000	
<u>AT 7506293 A</u>	February 15, 1981		000	
<u>AT 7804553 A</u>	June 15, 1981		000	
<u>AT 7804554 A</u>	June 15, 1981		000	
<u>BR 7505186 A</u>	August 3, 1976		000	
<u>CA 1053595 A</u>	May 1, 1979		000	
<u>CH 624431 A</u>	July 31, 1981		000	
<u>DE 2535951 A</u>	February 26, 1976		000	
<u>DK 7503652 A</u>	April 20, 1976		000	
<u>DK 7901230 A</u>	November 5, 1979		000	
<u>FI 7502275 A</u>	March 31, 1976		000	
<u>FI 7801273 A</u>	August 31, 1978		000	
<u>FR 2288748 A</u>	June 25, 1976		000	
<u>GB 1463513 A</u>	February 2, 1977		000	
<u>HU 17195 T</u>	October 27, 1979		000	
<u>IL 47893 A</u>	July 31, 1978		000	
<u>JP 51051582 A</u>	May 7, 1976		000	
<u>NL 7509667 A</u>	February 17, 1976		000	
<u>SE 7509008 A</u>	March 15, 1976		000	
<u>SE 8006247 A</u>	February 2, 1981		000	
<u>SU 687080 A</u>	September 25, 1979		000	
<u>SU 847926 A</u>	July 15, 1981		000	
<u>US 4267273 A</u>	May 12, 1981		000	
<u>ZA 7505140 A</u>	June 7, 1976		000	

A INT-CL (IPC): C07D 205/00; C07D 499/42; C07G 7/02; C08L 5/00; C12B 0/00; C12D 13/02; C12N 9/14; C12N 11/02; C12P 37/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Supplements	Attachments	Claims	KMC	Draw. Data
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Terms	Documents
\$lipid same (vinyl adjl ether)	42

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Generate OACS				

Search Results - Record(s) 1 through 30 of 42 returned.

☐ 1. Document ID: US 6683120 B2

Using default format because multiple data bases are involved.

L1: Entry 1 of 42

File: USPT

Jan 27, 2004

US-PAT-NO: 6683120

DOCUMENT-IDENTIFIER: US 6683120 B2

TITLE: Bioadhesive compositions

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Munro; Hugh Semple	Chipping Camden			GB

US-CL-CURRENT: 523/111; 424/448, 428/355RA, 524/277, 524/322, 524/481, 524/514,
524/578, 525/57, 525/58, 525/59, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Data
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☐ 2. Document ID: US 6599887 B2

L1: Entry 2 of 42

File: USPT

Jul 29, 2003

US-PAT-NO: 6599887

DOCUMENT-IDENTIFIER: US 6599887 B2

TITLE: Methods of treating viral infections using antiviral liponucleotides

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		
Stuhmiller; Louise M.	Rancho Santa Fe	CA		

US-CL-CURRENT: 514/47; 514/48, 514/51, 514/52, 536/26.1, 536/26.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Data
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☐ 3. Document ID: US 6448392 B1

L1: Entry 3 of 42

File: USPT

Sep 10, 2002

US-PAT-NO: 6448392

DOCUMENT-IDENTIFIER: US 6448392 B1

TITLE: Lipid derivatives of antiviral nucleosides: liposomal incorporation and method of use

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		
Stuhmiller; Louise M.	Rancho Santa Fe	CA		

US-CL-CURRENT: 536/26.1; 536/26.2, 536/26.21, 536/26.22, 536/26.23, 536/26.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KOMC	Draw. De
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☐ 4. Document ID: US 6436905 B1

L1: Entry 4 of 42

File: USPT

Aug 20, 2002

US-PAT-NO: 6436905

DOCUMENT-IDENTIFIER: US 6436905 B1

TITLE: Lipid-containing compositions and uses thereof

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tonge; Stephen R	Birmingham			GB
Tighe; Brian J	West Midlands			GB

US-CL-CURRENT: 514/23; 514/558, 514/560

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KOMC	Draw. De
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☐ 5. Document ID: US 6417326 B1

L1: Entry 5 of 42

File: USPT

Jul 9, 2002

US-PAT-NO: 6417326

DOCUMENT-IDENTIFIER: US 6417326 B1

TITLE: Fusogenic liposomes

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cullis; Pieter R.	Vancouver			CA
Choi; Lewis S. L.	Burnaby			CA
Monck; Myrna	Vancouver			CA
Bailey; Austin L.	Washington	DC		

US-CL-CURRENT: 530/324; 530/326, 530/327

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	K00C	Draw De
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☐ 6. Document ID: US 6380177 B1

L1: Entry 6 of 42

File: USPT

Apr 30, 2002

US-PAT-NO: 6380177

DOCUMENT-IDENTIFIER: US 6380177 B1

TITLE: LPA analogs as agonists of the Edg2 LPA receptor

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Erickson; James R.	El Cerrito	CA		

US-CL-CURRENT: 514/141; 514/143, 554/78

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	K00C	Draw De
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☐ 7. Document ID: US 6252060 B1

L1: Entry 7 of 42

File: USPT

Jun 26, 2001

US-PAT-NO: 6252060

DOCUMENT-IDENTIFIER: US 6252060 B1

TITLE: Antiviral liponucleosides: treatment of hepatitis B

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		

US-CL-CURRENT: 536/26.1; 536/26.23, 536/26.7, 536/26.71, 536/26.8, 536/26.9,
536/27.14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. De
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☐ 8. Document ID: US 6143853 A

L1: Entry 8 of 42

File: USPT

Nov 7, 2000

US-PAT-NO: 6143853

DOCUMENT-IDENTIFIER: US 6143853 A

**** See image for Certificate of Correction ****

TITLE: Method for separation and synthetic polymers that can be used as separation media in the method

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ericsson; Jan	Helsingborg			SE
Berggren; Eva	Uppsala			SE
Lundh; Liselotte	Rimbo			SE

US-CL-CURRENT: 526/332; 210/638, 502/401, 524/543

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. De
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☐ 9. Document ID: US 6099857 A

L1: Entry 9 of 42

File: USPT

Aug 8, 2000

US-PAT-NO: 6099857

DOCUMENT-IDENTIFIER: US 6099857 A

TITLE: Cell membrane fusion composition and method

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gross; Richard W.	St. Louis	MO		

US-CL-CURRENT: 424/450; 424/94.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw. De
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☐ 10. Document ID: US 5945514 A

L1: Entry 10 of 42

File: USPT

Aug 31, 1999

US-PAT-NO: 5945514

DOCUMENT-IDENTIFIER: US 5945514 A

TITLE: Antiviral raw materials

DATE-ISSUED: August 31, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akashi; Mitsuru	Kagoshima, Kagoshima		891-01	JP
Baba; Masanori	Kagoshima, Kagoshima		891-01	JP
Onishi; Makoto	Kanagawa			JP

US-CL-CURRENT: 530/396; 435/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KWMC	Draw. De
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☐ 11. Document ID: US 5869537 A

L1: Entry 11 of 42

File: USPT

Feb 9, 1999

US-PAT-NO: 5869537

DOCUMENT-IDENTIFIER: US 5869537 A

TITLE: Macrophage lipid chemoattractant

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schreiner; George F.	Los Altos	CA		
Lange, III; Louis G.	Portola Valley	CA		

US-CL-CURRENT: 514/722; 436/71, 514/826, 568/671, 568/687

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Claims	KWMC	Draw. De
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☐ 12. Document ID: US 5827831 A

L1: Entry 12 of 42

File: USPT

Oct 27, 1998

US-PAT-NO: 5827831

DOCUMENT-IDENTIFIER: US 5827831 A

TITLE: Lipid nucleotide analog prodrugs for oral administration

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KOMC	Drawings
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Spelling	Alt. Name	Claims	KMC	Draw. De
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☐ 15. Document ID: US 5766626 A

L1: Entry 15 of 42

File: USPT

Jun 16, 1998

US-PAT-NO: 5766626

DOCUMENT-IDENTIFIER: US 5766626 A

TITLE: Cell membrane fusion composition and method

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gross; Richard W.	St. Louis	MO		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	K00C	Draw D
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☐ 16. Document ID: US 5753261 A

L1: Entry 16 of 42

File: USPT

May 19, 1998

US-PAT-NO: 5753261

DOCUMENT-IDENTIFIER: US 5753261 A

TITLE: Lipid-coated condensed-phase microparticle composition

DATE-ISSUED: May 19, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fernandez; Julio M.	Rochester	MN		
Knudson; Mark B.	Shoreview	MN		

US-CL-CURRENT: 424/450; 424/489, 424/490

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	K00C	Draw D
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☐ 17. Document ID: US 5744592 A

L1: Entry 17 of 42

File: USPT

Apr 28, 1998

US-PAT-NO: 5744592

DOCUMENT-IDENTIFIER: US 5744592 A

TITLE: Lipid prodrugs for oral administration

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		
Sridhar; Nagarajan C.	Simi Valley	CA		

US-CL-CURRENT: 536/22.1; 544/276, 558/152, 558/169

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Abstracts	Claims	KWIC	Drawings
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☐ 18. Document ID: US 5744461 A

L1: Entry 18 of 42

File: USPT

Apr 28, 1998

US-PAT-NO: 5744461

DOCUMENT-IDENTIFIER: US 5744461 A

TITLE: Lipid derivatives of phosphonoacids for liposomal incorporation and method of use

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		

US-CL-CURRENT: 514/141; 514/547, 514/723, 514/885, 554/78, 554/80, 568/672, 568/8, 568/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Abstracts	Claims	KWIC	Drawings
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☐ 19. Document ID: US 5663450 A

L1: Entry 19 of 42

File: USPT

Sep 2, 1997

US-PAT-NO: 5663450

DOCUMENT-IDENTIFIER: US 5663450 A

TITLE: Macrophage lipid chemoattractant

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schreiner; George F.	Los Altos	CA		
Lange, III; Louis G.	Portola Valley	CA		

US-CL-CURRENT: 568/415; 568/382, 568/414, 568/671, 568/672, 568/680, 568/840, 568/852, 568/853

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Drawings
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☐ 20. Document ID: US 5648375 A

L1: Entry 20 of 42

File: USPT

Jul 15, 1997

US-PAT-NO: 5648375

DOCUMENT-IDENTIFIER: US 5648375 A

TITLE: Use of hydrophobic compounds and anesthetics in combination with allosteric hemoglobin modifiers

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abraham; Donald J.	Midlothian	VA		

US-CL-CURRENT: 514/421; 514/486, 514/512, 514/513, 514/533, 514/535, 514/538,
514/833, 548/403, 548/416, 548/473, 548/478, 560/30, 560/31, 560/32, 562/425,
562/452, 562/455, 568/452

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Drawings
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☐ 21. Document ID: US 5484809 A

L1: Entry 21 of 42

File: USPT

Jan 16, 1996

US-PAT-NO: 5484809

DOCUMENT-IDENTIFIER: US 5484809 A

TITLE: Prodrugs for oral administration containing taxol or substituted taxol covalently bound to a phospholipid

DATE-ISSUED: January 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Sridhar; Nagarajan C.	Simi Valley	CA		

US-CL-CURRENT: 514/449; 514/12, 514/18, 514/192, 514/199, 514/2, 514/200, 514/43,
514/50, 514/885, 549/430, 549/510

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Drawings
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☐ 22. Document ID: US 5484396 A

L1: Entry 22 of 42

File: USPT

Jan 16, 1996

US-PAT-NO: 5484396

DOCUMENT-IDENTIFIER: US 5484396 A

TITLE: Method and device for treatment of HIV infections and AIDS

DATE-ISSUED: January 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Naficy; Sadeque S.	Houston	TX	77024	

US-CL-CURRENT: 604/5.02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw De
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☐ 23. Document ID: US 5463092 A

L1: Entry 23 of 42

File: USPT

Oct 31, 1995

US-PAT-NO: 5463092

DOCUMENT-IDENTIFIER: US 5463092 A

**** See image for Certificate of Correction ****

TITLE: Lipid derivatives of phosphonacids for liposomal incorporation and method of use

DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		

US-CL-CURRENT: 554/40; 554/78, 554/79, 554/80

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMMC	Draw De
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☐ 24. Document ID: US 5419759 A

L1: Entry 24 of 42

File: USPT

May 30, 1995

US-PAT-NO: 5419759

DOCUMENT-IDENTIFIER: US 5419759 A

TITLE: Apparatus and methods for treatment of HIV infections and AIDS

DATE-ISSUED: May 30, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Naficy; Sadeque S. Houston TX 77024

US-CL-CURRENT: 604/5.02; 210/764, 422/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KMIC	Draw D
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☐ 25. Document ID: US 5411947 A

L1: Entry 25 of 42

File: USPT

May 2, 1995

US-PAT-NO: 5411947

DOCUMENT-IDENTIFIER: US 5411947 A

**** See image for Certificate of Correction ****

TITLE: Method of converting a drug to an orally available form by covalently bonding a lipid to the drug

DATE-ISSUED: May 2, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		

US-CL-CURRENT: 514/43; 514/12, 514/18, 514/192, 514/199, 514/2, 514/200, 514/50,
514/885

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KMIC	Draw D
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☐ 26. Document ID: US 5314823 A

L1: Entry 26 of 42

File: USPT

May 24, 1994

US-PAT-NO: 5314823

DOCUMENT-IDENTIFIER: US 5314823 A

TITLE: Method for cleaning a contact lens

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakagawa; Akira	Nagoya			JP

US-CL-CURRENT: 435/264; 510/114

Full	Title	Citation	Front	Review	Classification	Date	Reference	Attachments	Attachments	Claims	KMIC	Draw D
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☐ 27. Document ID: US 5277913 A

L1: Entry 27 of 42

File: USPT

Jan 11, 1994

US-PAT-NO: 5277913

DOCUMENT-IDENTIFIER: US 5277913 A

**** See image for Certificate of Correction ****

TITLE: Liposomal delivery system with photoactivatable triggered release

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; David H.	Portland	OR	97229	
Anderson; Valerie C.	Lake Oswego	OR	97034	

US-CL-CURRENT: 424/450; 424/417, 428/402.2, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KOMC	Draw D
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☐ 28. Document ID: US 5223263 A

L1: Entry 28 of 42

File: USPT

Jun 29, 1993

US-PAT-NO: 5223263

DOCUMENT-IDENTIFIER: US 5223263 A

TITLE: Liponucleotide-containing liposomes

DATE-ISSUED: June 29, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		
Stuhmiller; Louise M.	Rancho Santa Fe	CA		

US-CL-CURRENT: 424/450; 514/45, 514/49, 514/50, 514/51, 536/26.23, 536/26.5,
536/26.7, 536/26.71, 536/26.8, 536/26.9, 544/276, 544/277

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KOMC	Draw D
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☐ 29. Document ID: US 5194654 A

L1: Entry 29 of 42

File: USPT

Mar 16, 1993

US-PAT-NO: 5194654

DOCUMENT-IDENTIFIER: US 5194654 A

TITLE: Lipid derivatives of phosphonoacids for liposomal incorporation and method of use

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hostetler; Karl Y.	Del Mar	CA		
Kumar; Raj	San Diego	CA		

US-CL-CURRENT: 558/152; 558/169, 558/170, 558/180, 558/181, 558/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 30. Document ID: US 5025004 A

L1: Entry 30 of 42

File: USPT

Jun 18, 1991

US-PAT-NO: 5025004

DOCUMENT-IDENTIFIER: US 5025004 A

TITLE: Water-dispersible polymeric compositions

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Stephen H. W.	Kingsport	TN		
Greene; Carol J.	Mt. Carmel	TN		
Sharma; Mahendra K.	Kingsport	TN		

US-CL-CURRENT: 514/165; 106/170.12, 106/170.15, 106/170.27, 106/170.29, 106/170.4,
106/170.46, 106/174.1, 424/475, 424/477, 424/480, 424/482, 424/490, 424/59, 424/60,
514/965, 524/311, 524/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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\$lipid same (vinyl adj1 ether)

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L1: Entry 2 of 42

File: USPT

Jul 29, 2003

DOCUMENT-IDENTIFIER: US 6599887 B2

TITLE: Methods of treating viral infections using antiviral liponucleotides

Brief Summary Text (23):

In one preferred embodiment, the compound is a phosphatidyl dideoxynucleoside or a dideoxynucleoside diphosphate diglyceride. In another, the lipid species may comprise at least one acyl ester, ether, or vinyl ether group of glycerol-phosphate. Phosphatidic acids having at least one acyl ester, ether, or vinyl ether group may also serve as a favored lipid species.

Brief Summary Text (25):

In some preferred embodiments, the acyl or alkyl groups of the lipid species, of whatever linkage, as for example ester, ether or vinyl ether, comprise 2 to 24 carbon atoms. In one variation, at least one of the acyl or alkyl groups is saturated. In another, at least one of the acyl or alkyl groups has up to six double bonds. In yet another embodiment, an acyl or alkyl group may be attached directly by ester or alkyl linkage to the 5'-hydroxyl of the nucleoside.

Detailed Description Text (21):

The aliphatic groups of the lipid moieties preferably have chain lengths of two to twenty-four carbon atoms and have zero to six double bonds. The aliphatic groups may be attached to the glycerol moiety by acyl, ether or vinyl ether bonds.

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L1: Entry 5 of 42

File: USPT

Jul 9, 2002

DOCUMENT-IDENTIFIER: US 6417326 B1

TITLE: Fusogenic liposomes

Detailed Description Text (123):

For instance, U.S. Pat. No. 5,277,913 discloses a triggered release liposomal delivery system that selectively releases its contents in response to illumination or reduction in pH. The liposomes contain an amphipathic lipid, such as a phospholipid, having two chains derived from fatty acid that allow the lipid to pack into a bilayer structure. One or both of the alkyl chains contains a vinyl ether functionality that is cleaved by reactive oxygen species (ROS) or acid. A photosensitizer is incorporated into the liposomal cavity or membrane, and produces ROS or acid when illuminated to cleave the vinyl ether functionality and disrupt the liposomal membrane to release the vesicle contents. The lipid is preferably a plasmalogen, for example ##STR1##

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L1: Entry 12 of 42

File: USPT

Oct 27, 1998

DOCUMENT-IDENTIFIER: US 5827831 A

TITLE: Lipid nucleotide analog prodrugs for oral administration

Detailed Description Text (3):

The alkyl group of the monoglyceride of the phospholipid derivatives of the invention can be a straight, branched, or cyclic hydrocarbon chain, having from 2 to 24 carbons, and can be saturated or unsaturated with up to six double bonds. Preferably the alkyl group has 8 to 20 carbon atoms. Alkyl groups having from 14 to 18 carbon atoms are most preferred. The alkyl group is attached to the glycerol moiety by an ether or vinyl ether bond.

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L1: Entry 13 of 42

File: USPT

Oct 13, 1998

DOCUMENT-IDENTIFIER: US 5820879 A

TITLE: Method of delivering a lipid-coated condensed-phase microparticle composition

Brief Summary Text (38):

In another embodiment, the lipid membrane may include a monovalent ion-selective channel. Such a channel can be stimulated to open by a specific stimulus, depending on the type of channel selected. One particularly useful channel is a calcium-activated monovalent ion-selective channel, such as a potassium channel. When exposed to a critical extracellular calcium level, this channel will open, allowing potassium access to the condensed microparticle to effect decondensation, rupture of the encapsulating membrane and extrusion of particle contents into the extravascular medium. Ligand-gated channels, such as glutamate receptors and acetylcholine receptors, can also be used to provide selective release of compound. In another related embodiment, the encapsulated microparticles' lipid membranes may include a selected lipid effective to change conformation or structure in response to a selected stimulus. Such change results in perturbation of the vesicular membrane and consequent exposure of the condensed microparticle to monovalent ions present in the extravascular medium, decondensation and release of vesicular contents. One type of lipid useful in the invention is a plasmalogen lipid having a vinyl ether functional group capable of cleavage in response to acid or a reactive oxygen species. An example of such a plasmalogen is 1-alk-1'-enyl-2-palmitoyl-sn-glycero-3 phosphocholine.

Detailed Description Text (177):

In another embodiment, the lipid-bilayer membranes are constructed to include a plasmalogen lipid having the general formula: ##STR1## where; R.sub.1 and R.sub.2 are hydrocarbon chains having lengths from about 10-24 atoms, and which may include unsaturated carbon-carbon bonds, and R.sub.3 is a phospholipid phosphate-attached head group, e.g., a serine, choline, ethanolamine, inositol and inositol analogs, or where R.sub.3 is absent, giving a double charged phosphate head group. More generally, the plasmalogen is a phospholipid in which at least one of the hydrocarbon chains contains an .alpha.,.beta.-unsaturated ether functional group, such as a vinyl ether, within about 4 to 6 carbons of the charged polar head group. The bilayer membrane preferably includes 10 mole percent or more plasmalogen lipid, preferably 20-70 mole percent.

CLAIMS:

15. The method of claim 1, wherein the encapsulated microparticles' lipid membranes include a plasmalogen lipid having a vinyl ether functional group capable of cleavage in response to acidic conditions or a reactive oxygen species.

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L1: Entry 15 of 42

File: USPT

Jun 16, 1998

DOCUMENT-IDENTIFIER: US 5766626 A

TITLE: Cell membrane fusion composition and method

Detailed Description Text (9):

"Plasmenyl glyceryl lipid with a small-volume polar head group" includes, in addition to plasmenyl phospholipids with a small-volume polar head group, diacyl glycerol or analog thereof in which one of the hydrocarbon chains in the molecule is linked to the glycerol backbone through a vinyl ether linkage (alkenyl acylglycerol or analog with a small-volume, non-phosphate containing head group).

Detailed Description Text (25):

It is known that lipid vesicles having a smaller diameter and higher radius of curvature, and consequently more internal strain, exhibit faster fusion rates in general than those having a larger diameter, a lower radius of curvature and less internal strain. To verify that observed differences in fusion rates were attributable to properties of the vinyl ether linkage and did not result from differences in vesicle size, the diameter of diacyl-plasmalogen-containing vesicles using [¹⁴C] inulin was compared. There were no significant differences in size between the various binary mixtures of PC and PE SUVs comprised of distinct ethanolamine glycerophospholipid subclasses as seen in Table I. The diameter of PS vesicles were approximately 1.2 times larger than SUVs comprised of equal molar mixtures of choline and ethanolamine glycerophospholipids.

Detailed Description Text (62):

The lipid vesicles in the composition are formed as above by standard vesicle-forming methods. The lipids employed in the vesicles include at least 10 mole percent of a plasmenyl phospholipid with a small-volume polar head group, e.g., ethanolamine, serine, or phosphatidic acid. Alternatively, the plasmenyl lipid may be diacyl glycerol analog, where one of the hydrocarbon chains is linked to the glycerol backbone through a vinyl ether linkage. The amount of the plasmenyl glycerol lipid is preferably between about 20-70 mole percent, more preferably 20-40 mole percent.

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L1: Entry 23 of 42

File: USPT

Oct 31, 1995

DOCUMENT-IDENTIFIER: US 5463092 A

**** See image for Certificate of Correction ****

TITLE: Lipid derivatives of phosphonacids for liposomal incorporation and method of use

Detailed Description Text (3):

According to one embodiment of the invention, the lipid moiety attached to the phosphonoacid is a diacyl- or dialkylglycerol or a 1-acyl-2-O-alkyl glycerol, or a 1-O-alkyl-2-acylglycerol; in other embodiments, the lipid moiety is a monoacyl- or monoalkylglycerol or a fatty acid, a phospholipid, or a more complex lipid moiety, such as, for example, a sphingosine, a ceramide, cardiolipin, or bis(diacylglycero) phosphate. The lipid moiety may comprise from 1 to 4 long chain aliphatic groups, each comprising from 2 to 24 carbon atoms, which may be unsaturated, containing from 1 to 6 double bonds. The aliphatic groups of glycerols may be attached to the constituent glycerol unit by ester, ether, or vinyl ether bonds. The aliphatic groups of lipids having more than one such group may be the same or different in structure.

Detailed Description Text (30):

One class of these comprises diphosphatidylglycerol derivatives, having the general structure: ##STR13## wherein n is 0 or 1, and R.sub.1-4 are two, three or four aliphatic groups which are independently R as defined below, said groups being in acyl ester, ether, or vinyl ether linkages. In this class, phosphonoacids are attached to one or both phosphates by a diphosphate bond. There may be one or two phosphonoacids attached to each molecule. Another class of phosphonoacid derivatives having increased lipid components comprises bis(diacylglycero)phosphate phosphonoacids, having the general structure: ##STR14## where n is 0 or 1, and R.sub.1 -R.sub.4 are as defined previously. This compound will be metabolized to a phosphonoacid in the cells by endogenous pyrophosphatases or other esterases. These two types of compounds may provide superior metabolic and physical properties.

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L1: Entry 32 of 42

File: USPT

Nov 5, 1985

DOCUMENT-IDENTIFIER: US 4551446 A

TITLE: Use of synthetic phosphoglycerides possessing platelet activating properties as desensitizing agents

Detailed Description Text (7):

Isolation and purification of the precursors, lysolecithin and vinyl ether-containing phospholipids have been described respectively in Wells, M.A., and Hanahan, D.J., 8 Biochemistry 414 (1969) and Pugh, E.L., et al., 18 Journal of Lipid Research 710 (1977).

Detailed Description Text (16):

Vinyl ether-containing phospholipids of fresh beef heart were isolated and purified as outlined by Pugh et al, 18 J. Lipid Res. 710-716 (1977). Briefly, a fresh beef heart was cut up and coarsely ground. Meat was homogenized with methanol: chloroform (2:1 v/v) for 1 minute. The mixture was filtered and the filtrate was subjected to phase separation, using chloroform: water (1:1 v/v). The chloroform phase was concentrated in vacuo to dryness. The residual lipid material from the chloroform layer was dissolved in chloroform (50 ml) and stored at 4.degree. C. The yield of total lipids was approximately 19.9 mg/g fresh tissue.

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L1: Entry 39 of 42

File: DWPI

Sep 4, 1997

DERWENT-ACC-NO: 1997-470450

DERWENT-WEEK: 199743

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TITLE: Enhancing delivery of bio-active agents to cell cytoplasm - from liposomes containing (alkenyl, alkyl)- or (di:alkenyl)-glycerophosphate ester which is cleaved by lower cell pH to release the agent

INVENTOR: LOW, P S; RUI, Y ; THOMPSON, D H ; WANG, S

PATENT-ASSIGNEE: THOMPSON D H (THOMI), PURDUE RES FOUND (PURD)

PRIORITY-DATA: 1996US-012353P (February 27, 1996)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> WO 9731624 A1	September 4, 1997	E	040	A61K009/127
<input type="checkbox"/> AU 9723169 A	September 16, 1997		000	A61K009/127

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

CITED-DOCUMENTS:US 5277913; US 5399331

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9731624A1	February 26, 1997	1997WO-US03077	
AU 9723169A	February 26, 1997	1997AU-0023169	
AU 9723169A		WO 9731624	Based on

INT-CL (IPC): [A61 K 9/127](#)

ABSTRACTED-PUB-NO: WO 9731624A

BASIC-ABSTRACT:

A composition is claimed for enhancing delivery of an exogenous molecule to the cytoplasm of the cell. The composition comprises a liposome, encapsulating the exogenous molecule. At least a portion of the phospholipids of the liposome are complexed to a ligand, and a portion comprises a vinyl ether phospholipid of formula (I). p, q = 0 or 1, provided that at least one is 1; R1, R2 = 12-24C alkyl; and R3 = a phosphoryl ester group.

Also claimed is a liposome complex comprising an exogenous molecule; a liposome encapsulating the exogenous molecule, comprising a pH lipid of formula (I; p, q = i; R1, R2 = 13-15C n-alkyl); and a targetting lipid of the formula DSPE-linker ligand. DSPE = distearoylphosphatidylethanolamine .

USE - A wide variety of diagnostic, therapeutic, and transfecting agents can be delivered to the cytoplasm in this way, particularly to tumours with acidic nature. The agents include anticancer agents, antibiotics or other antimicrobials, analgesics, bronchodilators, beta-blockers, antihypertensives, cardiovascular agents, CNS active agents (e.g., psychotropics, antidepressants, stimulants, antimanics), antivirals, antihistamines, antiinflammatories, anticonvulsants, diuretics, antispasmodics, cough suppressants, mucolytics, prostaglandins, and vitamins, besides peptides, proteins, glycoproteins, antigens, antibodies, receptors, enzymes and coenzymes, amino acids, hormones, lipids and phospholipids, nucleotides, oligonucleotides and polynucleotides including their analogues and antisense moieties, plasmids, cosmids, artificial chromosomes or other nucleic acid vectors or ligands for regulating gene transcription and translation.

ADVANTAGE - The composition provides improved delivery of bioactive agents to cells. The ligand, recognised by a target receptor, provides delivery of the liposome to a required population of cells; this is prior art. The vinyl ether group is then hydrolysed in response to a lower pH in the cytoplasm, thus disrupting the liposomal membrane to release the active agent.

ABSTRACTED-PUB-NO: WO 9731624A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/5

DERWENT-CLASS: B05 B07

CPI-CODES: B02-Z; B03-L; B04-B01B; B04-C01; B04-E01; B04-H03; B04-N04; B05-B01P;
B12-M11E; B14-C01; B14-C03; B14-H01; B14-J01; B14-K01;

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